SECTION RSU
REAR SUSPENSION

CONTENTS

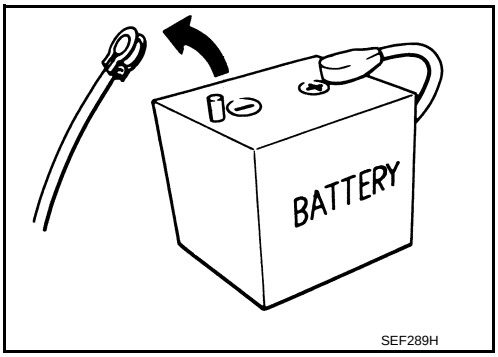
PRECAUTION

PRECAUTIONS

Precautions for Removing Battery Terminal

INFOID:0000000010822771

- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing “How to disconnect 12V battery terminal” described below.
  NOTE:
  Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.



HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.
For vehicles parked by ignition switch OFF, refer to Instruction 2.

INSTRUCTION 1

1. Open the hood.
2. Turn key switch to the OFF position with the driver side door opened.
3. Get out of the vehicle and close the driver side door.
4. Wait at least 3 minutes.
   CAUTION:
   While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.
5. Remove 12V battery terminal.
   CAUTION:
   After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

1. Unlock the door with intelligent key or remote keyless entry.
   NOTE:
   At this moment, ACC power is supplied.
2. Open the driver side door.
3. Open the hood.
4. Close the driver side door.
5. Wait at least 3 minutes.
   CAUTION:
   While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.
6. Remove 12V battery terminal.
   CAUTION:
   After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

Precautions for Suspension

INFOID:0000000010822772

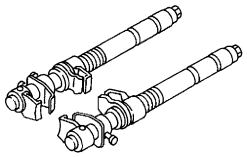
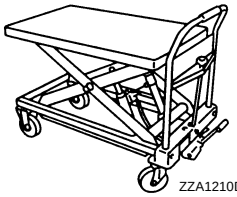
- When installing rubber bushings, the final tightening must be carried out under unladen conditions with tires on ground. Spilled oil might shorten the life of rubber bushings. Be sure to wipe off any spilled oil.
- Unladen conditions mean that fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.
- After servicing suspension parts, be sure to check wheel alignment.
- Self-lock nuts are not reusable. Always use new ones when installing. Since new self-lock nuts are pre-oiled, tighten as they are.

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000010822773

Tool name	Description
Spring compressor  S-NT717	Removing and installing coil spring
Manual lift table caddy  ZZA1210D	Removing and installing rear suspension member

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:0000000010822774

Use chart below to find the cause of the symptom. If necessary, repair or replace these parts.

Possible cause and SUSPECTED PARTS			Improper installation, looseness	Shock absorber deformation, damage or deflection	Bushing or mounting deterioration	Parts interference	Spring fatigue	Suspension looseness	Incorrect wheel alignment	Stabilizer bar fatigue	PROPELLER SHAFT	DIFFERENTIAL	REAR AXLE AND REAR SUSPENSION	TIRE	ROAD WHEEL	DRIVE SHAFT	BRAKE
Reference			RSU-9, RSU-11, RSU-13, RSU-15, RSU-17, RSU-19, RSU-20	RSU-10	—	—	—	RSU-9, RSU-11, RSU-13, RSU-15, RSU-17, RSU-19, RSU-20	RSU-7	—	NVH in DLN sections.	NVH in DLN sections.	NVH in DLN sections.	NVH in WT section.	NVH in WT section.	NVH in RAX sections.	NVH in BR section.
Symptom	REAR SUSPENSION	Noise	×	×	×	×	×	×			×	×	×	×	×	×	×
		Shake	×	×	×	×		×			×		×	×	×	×	×
		Vibration	×	×	×	×	×				×		×	×		×	
		Shimmy	×	×	×	×			×				×	×	×		×
		Judder	×	×	×								×	×	×		×
		Poor quality ride or handling	×	×	×	×	×		×	×			×	×	×		

×: Applicable

PERIODIC MAINTENANCE

REAR SUSPENSION ASSEMBLY

Inspection

INFOID:0000000010822775

COMPONENT PART

Check the mounting conditions (looseness, backlash) of each component and component conditions (wear, damage) are normal.

SHOCK ABSORBER

Check for oil leakage and damage. Replace it if necessary.

WHEEL ALIGNMENT

Inspection

INFOID:0000000010822776

DESCRIPTION

Measure wheel alignment under unladen conditions.

NOTE:

“Unladen conditions” means that fuel, engine coolant, and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

PRELIMINARY CHECK

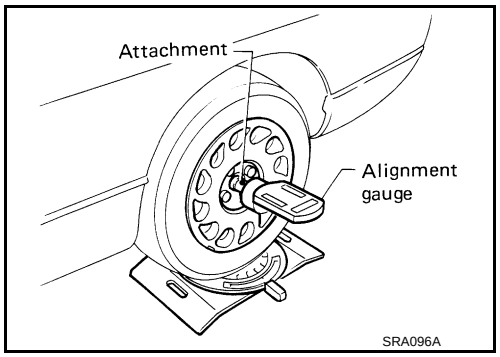
Check the following:

- Tires for improper air pressure and wear. Refer to WT-66, "Tire Air Pressure".
- Road wheels for runout.
- Wheel bearing axial end play.
- 2WD: Refer to RAX-6, "Inspection".
- 4WD: Refer to RAX-16, "Inspection".
- Shock absorber operation.
- Each mounting point of axle and suspension for looseness and deformation.
- Each of lower link, upper link, rear suspension member, suspension arm and shock absorber for cracks, deformation, and other damage.
- Vehicle height (posture).

CAMBER

- Measure camber of both right and left wheels with a suitable alignment gauge.
- If camber is outside specified range, adjust with adjusting bolt in front lower link. Refer to RSU-8, "Adjustment".

Camber: Refer to RSU-22, "Wheel Alignment".



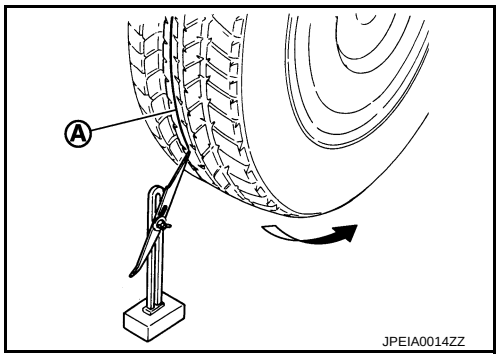
TOE-IN

Measure toe-in by the following procedure.

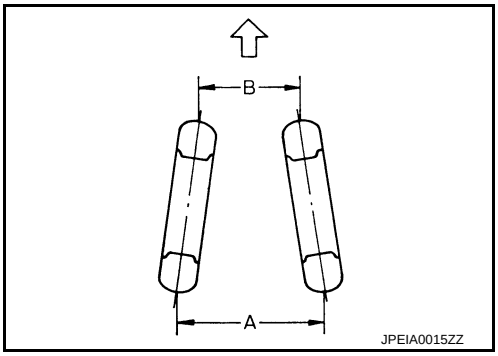
WARNING:

- **Always perform the following procedure on a flat surface.**
- **Make sure that no person is in front of vehicle before pushing it.**

1. Bounce the front of vehicle up and down to stabilize the vehicle height (posture).
2. Push vehicle straight ahead about 5 m (16 ft).
3. Put matching mark Ⓐ on base line of the tread (rear side) of both tires at the same height of hub center. These are measuring points.



4. Measure distance (A) (rear side).
5. Push vehicle slowly ahead to rotate wheels 180 degrees (1/2 turn).
   NOTE:
   If the wheels rotates more than 180 degrees (1/2 turn), start this procedure again from the beginning. Do not push the vehicle backward.
6. Measure distance (B) (front side).



Total toe-in = A – B

Total toe-in: Refer to RSU-22, "Wheel Alignment".

- If toe-in is outside specified range, adjust with adjusting bolt in suspension arm. Refer to RSU-8, "Adjustment".

Adjustment

INFOID:0000000010822777

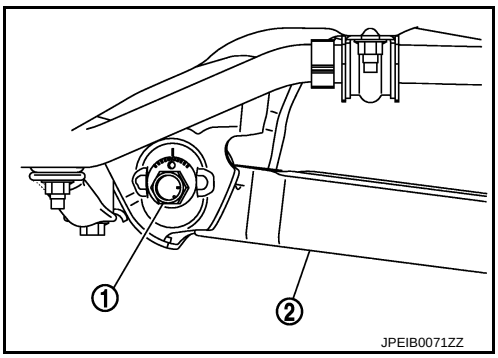
CAMBER

- If camber is exceeds the standard value, adjust with adjusting bolt ① in lower link ②.

Camber: Refer to RSU-22, "Wheel Alignment".

CAUTION:
- **When tightening the nut firmly and checking the torque, use a wrench to prevent the turning of the bolt.**
- **After adjusting camber, be sure to check toe-in.**

- If camber is not still within the specification, inspect and replace any damaged or worn suspension parts.



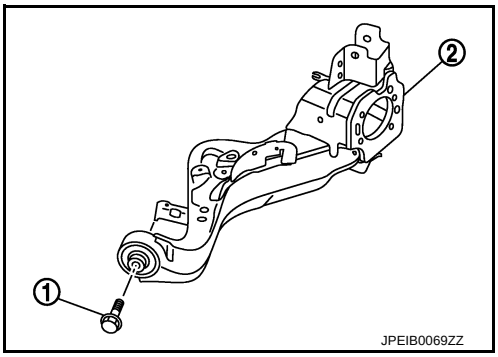
TOE-IN

- If toe-in is exceeds the standard value, adjust with adjusting bolt ① in suspension arm ②.

Toe-In: Refer to RSU-22, "Wheel Alignment".

CAUTION:
- **Be sure to adjust equally on right and left side with adjusting bolt.**
- **When tightening the nut firmly and checking the torque, use a wrench to prevent the turning of the bolt.**

- If toe-in is not still within the specification, inspect and replace any damaged or worn suspension parts.
- After toe-in adjustment, adjust neutral position of steering angle sensor. Refer to BRC-99, "Work Procedure".

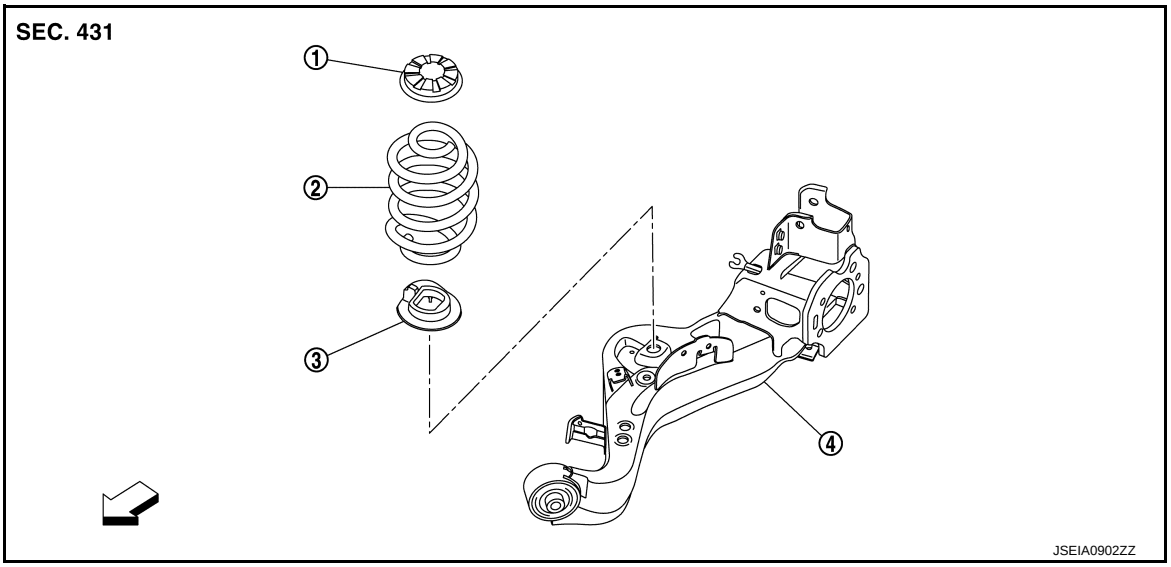


REMOVAL AND INSTALLATION

COIL SPRING

Exploded View

INFOID:0000000010822778



① Upper rubber seat ② Coil spring ③ Lower rubber seat
④ Suspension arm
⇦: Vehicle front

Removal and Installation

INFOID:0000000010822779

REMOVAL

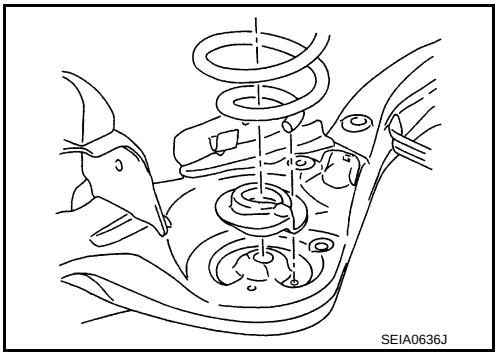
1. Remove tires. Refer to WT-61, "Removal and Installation".
2. Remove wheel sensor and sensor harness. Refer to BRC-214, "REAR WHEEL SENSOR : Removal and Installation".
3. Remove caliper assembly. Hang caliper assembly in a place where it will not interfere with work. Refer to BR-63, "BRAKE CALIPER ASSEMBLY : Removal and Installation".
   CAUTION:
   Never depress brake pedal while brake caliper is removed.
4. Using jack to suspension arm.
   CAUTION:
   - **Never damage the front suspension member with a jack.**
   - **Check the stable condition when using a jack.**
5. Remove shock absorber from suspension arm. Refer to RSU-11, "Removal and Installation".
6. Remove upper link from suspension arm. Refer to RSU-17, "Removal and Installation".
7. Remove lower link from suspension arm. Refer to RSU-15, "Removal and Installation".
8. Loosen the mounting bolts and nuts of suspension arm and suspension arm bracket.
9. Remove drive shaft. RAX-22, "Removal and Installation" (4WD).
10. Slowly lower jack, remove upper rubber seat, coil spring and lower rubber seat from suspension arm.
    CAUTION:
    Operate while checking that jack supporting status is stable.
11. Perform inspection after removal. Refer toRSU-10, "Inspection" .

INSTALLATION

Note the following, and install in the reverse order of removal.

- Securely install coil spring with the lower end aligned with the steps of lower rubber seat.

CAUTION:
The lower rubber seat protrusion must be securely inserted into the hole of rear suspension arm.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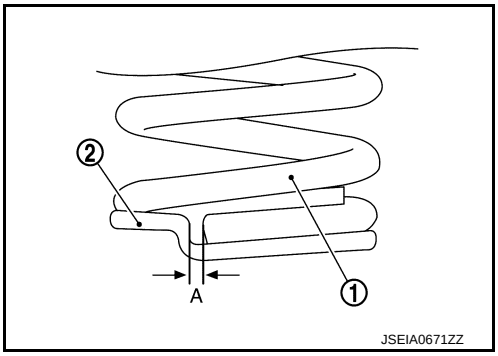
- Install coil spring ① by aligning lower end of coil spring with lower rubber seat ② as shown in the figure.

Dimension (A) : 5 mm (0.20 in) or less



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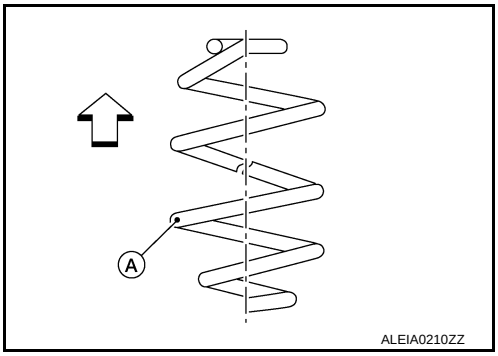
CAUTION:
Set coil spring so that its paint mark Ⓐ is aligned with the position of 1.75 turns from the bottom end of the coil spring.



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- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-10, "Inspection".

Inspection

INFOID:0000000010822780

INSPECTION AFTER REMOVAL

Check rear lower link, rubber seat, upper seat, and coil spring for deformation, crack, and damage. Replace it if necessary.

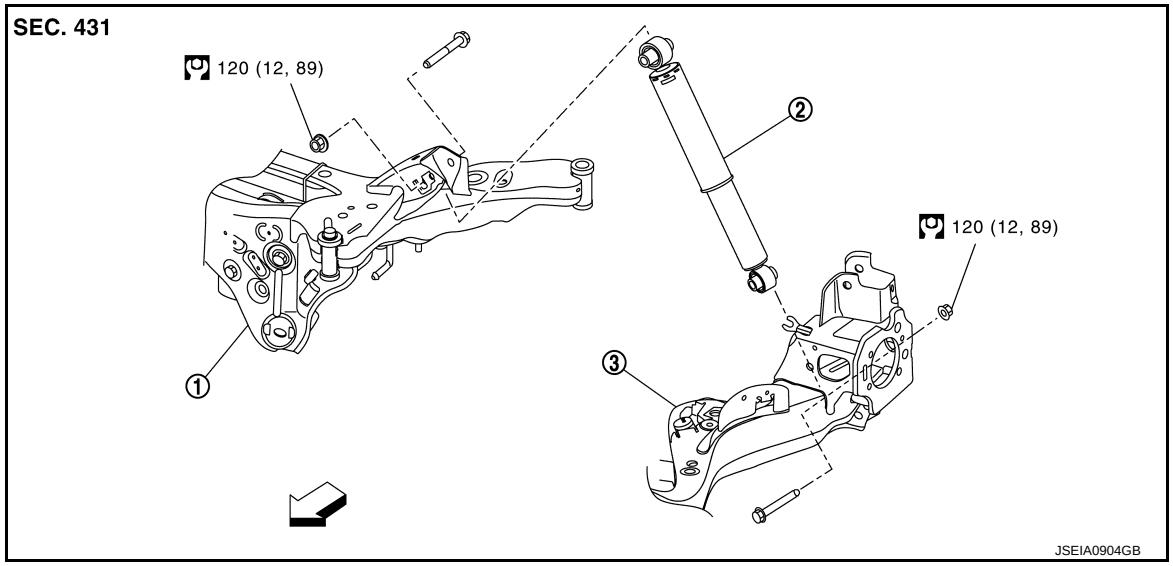
INSPECTION AFTER INSTALLATION

1. Check wheel sensor harness for proper connector. Refer to BRC-213, "REAR WHEEL SENSOR : Exploded View".
2. Check wheel alignment. Refer to RSU-7, "Inspection".
3. Adjust neutral position of steering angle sensor. Refer to BRC-99, "Work Procedure".

REAR SHOCK ABSORBER

Exploded View

INFOID:0000000010822781



① Rear suspension member ② shock absorber ③ Suspension arm

: N·m (kg-m, ft-lb)

: Vehicle front

Removal and Installation

INFOID:0000000010822782

REMOVAL

1. Remove tires. Refer to WT-61, "Removal and Installation".
2. Set jack (A) under suspension arm to relieve the coil spring tension.
   CAUTION:
   - **Check the stable condition when using a jack.**
   - **Never damage suspesion arm with a jack.**
3. Remove shock absorber mounting bolt (Upper and lower side).
4. Remove shock absorber.
5. Perform inspection after removal. Refer to RSU-11, "Inspection".

INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-11, "Inspection".
- After replacing the shock absorber, always follow the disposal procedure to discard the shock absorber. Refer to RSU-12, "Disposal".

Inspection

INFOID:0000000010822783

INSPECTION AFTER DISASSEMBLY

Check the following items, and replace the part if necessary.

- Shock absorber for deformation, cracks, and other damage.
- Piston rod for damage, uneven wear, and distortion.
- Oil leakage

INSPECTION AFTER INSTALLATION

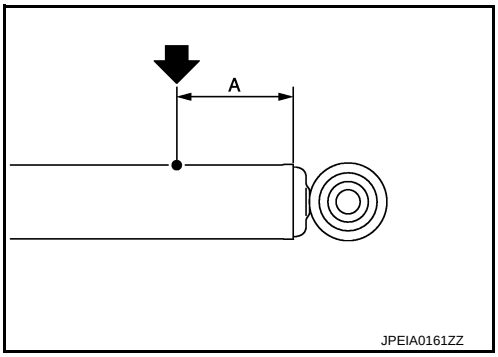
1. Check wheel alignment. Refer to RSU-7, "Inspection".

2. Adjust neutral position of steering angle sensor. Refer to BRC-99, "Work Procedure".

Disposal

INFOID:0000000010822784

1. Set shock absorber horizontally to the ground with the piston rod fully extracted.
2. Drill 2 – 3 mm (0.08 – 0.12 in) hole at the position (●) from top as shown in the figure to release gas gradually.



CAUTION:
- **Wear eye protection (safety glasses).**
- **Wear gloves.**
- **Be careful with metal chips or oil blown out by the compressed gas.**

NOTE:
- Drill vertically in this direction show by arrow.
- Directly to the outer tube avoiding brackets.
- The gas is clear, colorless, odorless, and harmless.

A : 20 – 30 mm (0.79 – 1.18 in)

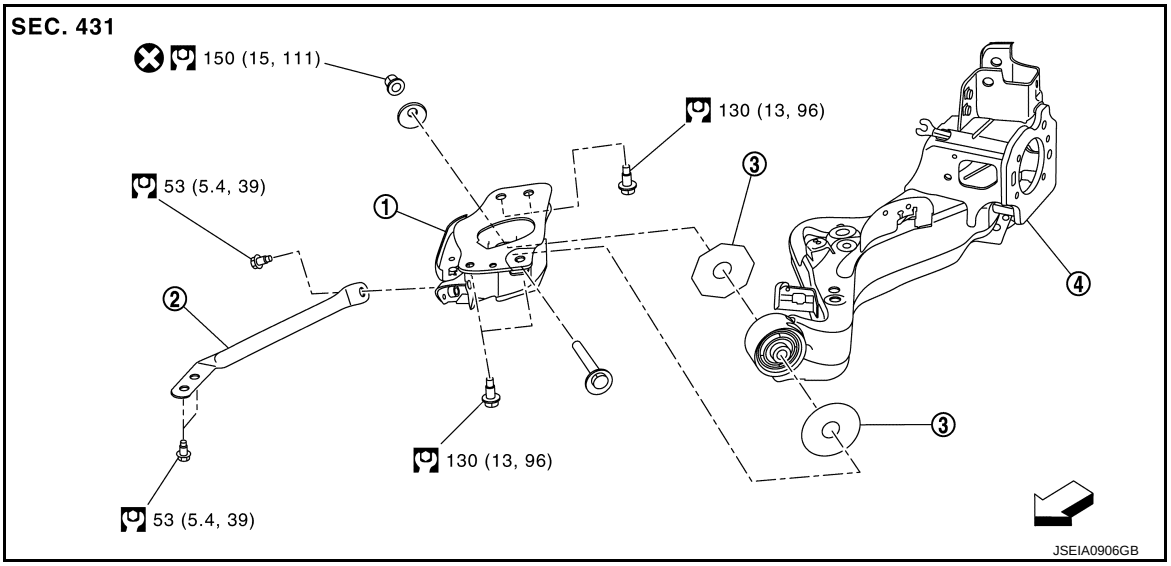
3. Position the drilled hole downward and drain oil by moving the piston rod several times.

CAUTION:
Dispose of drained oil according to the law and local regulations.

REAR SUSPENSION ARM

Exploded View

INFOID:0000000010822785



① Suspension arm bracket ② Suspension bar ③ Arm stopper

④ Suspension arm

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

: Vehicle front

Removal and Installation

INFOID:0000000010822786

REMOVAL

1. Remove tires. Refer to WT-61, "Removal and Installation".
2. Drain brake fluid.
   - LHD: Refer to BR-13, "Draining".
   - RHD: Refer to BR-77, "Draining".
3. Remove wheel sensor and sensor harness. Refer to BRC-214, "REAR WHEEL SENSOR : Removal and Installation".
4. Remove caliper assembly. Hang caliper assembly in a place where it will not interfere with work.
   - LHD: Refer to BR-63, "BRAKE CALIPER ASSEMBLY : Removal and Installation".
   - RHD: Refer to BR-123, "BRAKE CALIPER ASSEMBLY : Removal and Installation".

   CAUTION:
   Never depress brake pedal while brake caliper is removed.
5. Remove disc rotor.
   - 2WD: Refer to RAX-7, "Removal and Installation".
   - 4WD: Refer to RAX-18, "Removal and Installation".

   CAUTION:
   - **Put matching marks on the wheel hub assembly and the disc rotor before removing the disc rotor.**
   - **Never drop disc rotor.**
6. Remove parking brake cable mounting bolt. Refer to PB-154, "Exploded View".
7. Separate the brake tube from the brake hose, and then remove rock plate.
   - LHD: Refer to BR-29, "REAR : Removal and Installation".
   - RHD: Refer to BR-92, "REAR : Removal and Installation".
8. Remove brake tube from suspension arm.
   - LHD: Refer to BR-27, "REAR : Exploded View".

- RHD: Refer to BR-91, "REAR : Exploded View".

9. Remove rear wheel hub assembly and back plate.
   - 2WD: Refer to RAX-7, "Exploded View".
   - 4WD: Refer to RAX-18, "Exploded View".
10. Removal rear hight sensor (with LED head lamp). Refer to EXL-200, "REAR HEIGHT SENSOR : Removal and Installation".
11. Set jack suspension arm.
    CAUTION:
    - **Check the stable condition when using a jack.**
    - **Never damage rear lower link with a jack.**
12. Remove coil spring from suspension arm. Refer to RSU-9, "Removal and Installation".
13. Remove suspension arm bracket and suspension arm from vehicle.
    CAUTION:
    Remove suspension arm bracket and suspension arm as a set.
14. Remove suspension arm bracket from suspension arm.
15. Perform inspection after removal. Refer to RSU-14, "Inspection".

INSTALLATION

Note the following, and install in the reverse order of removal.

- Align the matching marks that have been made during removal when reusing the disc rotor.
- After installin, perform the air bleeding. Refer to BR-14, "Bleeding Brake System".
- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Be careful about the direction of arm stopper. (Vehicle side: Circule, Inside: Octagon)
- Perform inspection after installation. Refer to RSU-14, "Inspection".

Inspection

INFOID:0000000010822787

INSPECTION AFTER REMOVAL

Check suspension arm and bushing for deformation, crack, and damage. Replace it if necessary.

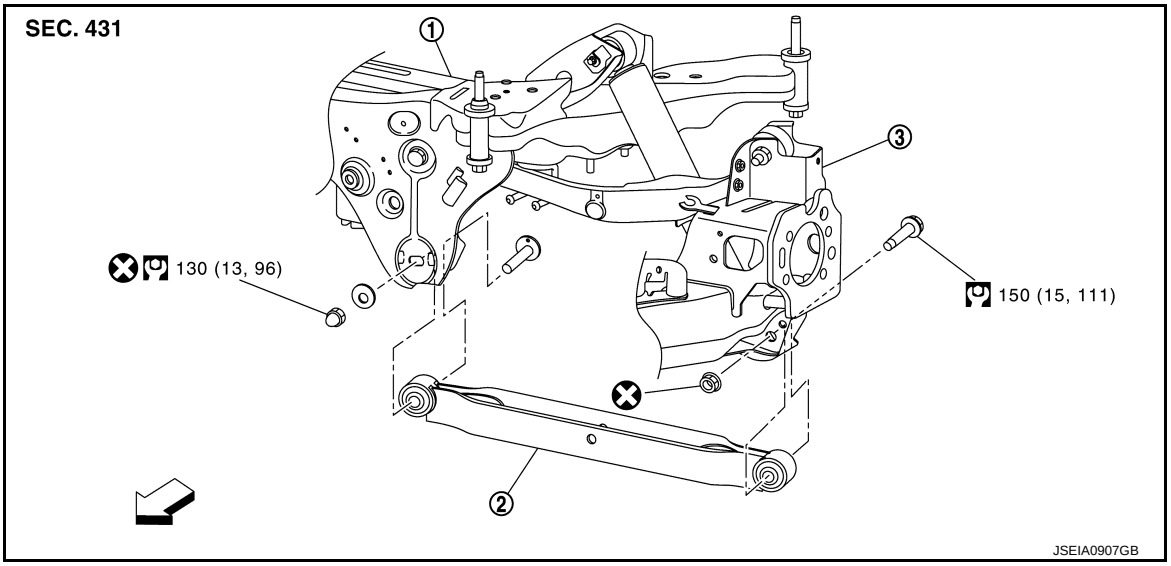
INSPECTION AFTER INSTALLATION

1. Check wheel sensor harness for proper connector. Refer to BRC-213, "REAR WHEEL SENSOR : Exploded View".
2. Check wheel alignment. Refer to RSU-7, "Inspection".
3. Adjust neutral position of steering angle sensor. Refer to BRC-99, "Work Procedure".
4. After final tightening, install rear hight sensor (with LED head lamp). Refer to EXL-200, "REAR HEIGHT SENSOR : Removal and Installation".

LOWER LINK

Exploded View

INFOID:0000000010822788



① Lower link

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

: Vehicle front

Removal and Installation

INFOID:0000000010822789

REMOVAL

1. Remove tires. Refer to WT-61, "Removal and Installation".
2. Removal rear hight sensor (with LED head lamp). Refer to EXL-200, "REAR HEIGHT SENSOR : Removal and Installation".
3. Separate stablize link from lower link. Refer to RSU-19, "Removal and Installation".
4. Set jack suspension arm.
   CAUTION:
   - **Check the stable condition when using a jack.**
   - **Never damage rear lower link with a jack.**
5. Remove lower link from suspension arm.
6. Remove lower link from suspension member.
7. Perform inspection after removal. Refer to RSU-15, "Inspection".

INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-15, "Inspection".

Inspection

INFOID:0000000010822790

INSPECTION AFTER REMOVAL

Check suspension arm and bushing for deformation, crack, and damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

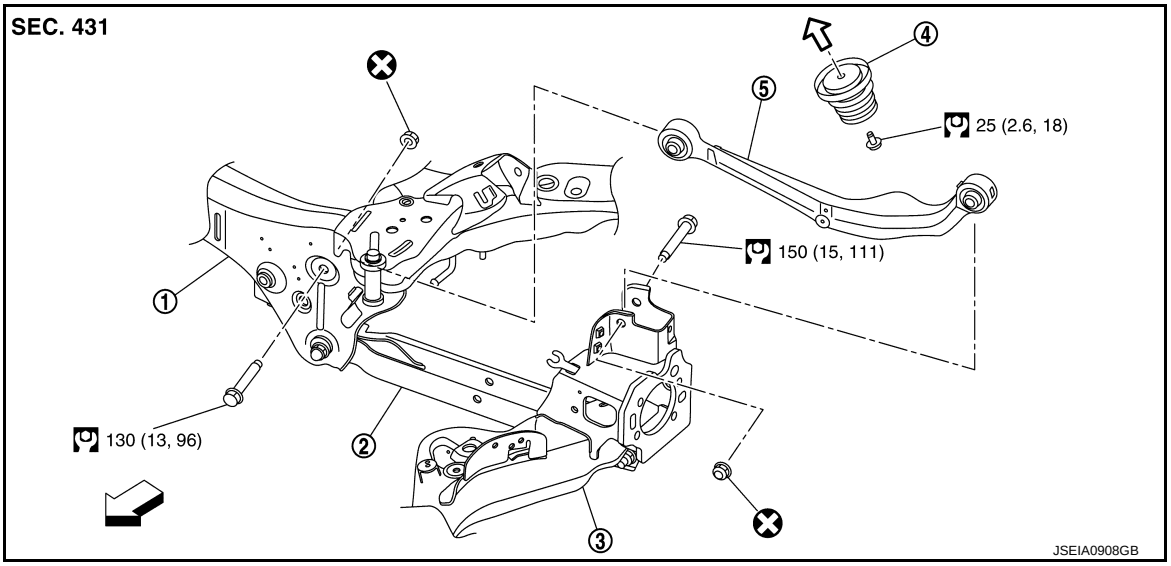
1. Check wheel alignment. Refer to RSU-7, "Inspection".

2. Adjust neutral position of steering angle sensor. Refer to BRC-99, "Work Procedure".
3. After final tightening, install rear hight sensor (with LED head lamp). Refer to EXL-200, "REAR HEIGHT SENSOR : Removal and Installation".

UPPER LINK

Exploded View

INFOID:0000000010822791



① Rear suspension member ② Lower link ③ Suspension arm
④ Bound bumper ⑤ Upper link

: Always replace after every disassembly.
: N·m (kg-m, ft-lb)
: Vehicle front

Removal and Installation

INFOID:0000000010822792

REMOVAL

1. Remove tires. Refer to WT-61, "Removal and Installation".
2. Remove wheel sensor and sensor harness. Refer to BRC-214, "REAR WHEEL SENSOR : Removal and Installation".
3. Set jack suspension arm.
   CAUTION:
   - **Check the stable condition when using a jack.**
   - **Never damage rear lower link with a jack.**
4. Remove upper link from suspension arm.
5. Remove upper link bracket from rear suspension member.
6. Perform inspection after removal. Refer to RSU-17, "Inspection".

INSTALLATION

Note the following, and install in the reverse order of removal.

- Align the matching marks that have been made during removal when reusing the disc rotor.
- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to RSU-17, "Inspection".

Inspection

INFOID:0000000010822793

INSPECTION AFTER REMOVAL

Check suspension arm and bushing for deformation, crack, and damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

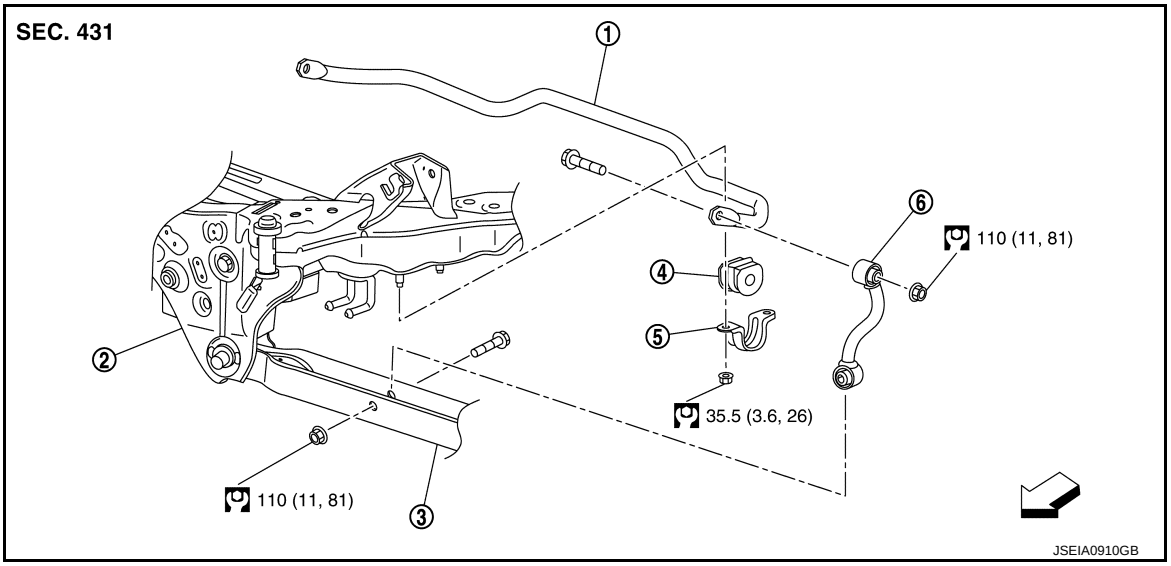
< REMOVAL AND INSTALLATION >

1. Check wheel sensor harness for proper connector. Refer to BRC-213, "REAR WHEEL SENSOR : Exploded View".
2. Check wheel alignment. Refer to RSU-7, "Inspection".
3. Adjust neutral position of steering angle sensor. Refer to BRC-99, "Work Procedure".

REAR STABILIZER

Exploded View

INFOID:0000000010822794



① Stabilizer bar
② Rear suspension member
③ Lower link
④ Stabilizer clamp
⑤ Stabilizer bushing
⑥ Stabilizer link

: N·m (kg-m, ft-lb)
: Vehicle front

Removal and Installation

INFOID:0000000010822795

REMOVAL

1. Remove stabilizer link.
2. Remove main muffler.
   - MR20DD: Refer to EX-6, "Removal and Installation".
   - QR25DE: Refer to EX-12, "Removal and Installation".
   - R9M: Refer to EX-18, "Removal and Installation".
3. Remove mounting nuts on stabilizer clamp and stabilizer bar from suspension member.

INSTALLATION

Install in the reverse order of removal.

Inspection

INFOID:0000000010822796

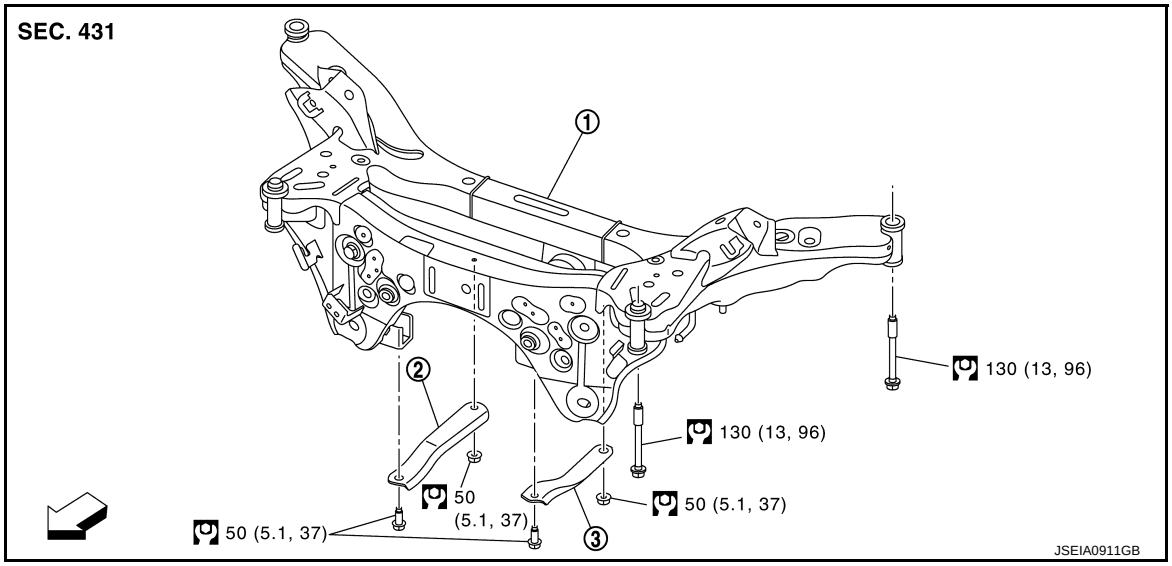
INSPECTION AFTER REMOVAL

Check stabilizer bar, stabilizer link, stabilizer bushing and stabilizer clamp for deformation, cracks or damage. Replace it if necessary.

REAR SUSPENSION MEMBER

Exploded View

INFOID:0000000010822797



① Rear suspension member ② Suspension member stay (right side) ③ Suspension member stay (left side)

: N·m (kg-m, ft-lb)

: Vehicle front

Removal and Installation

INFOID:0000000010822798

REMOVAL

1. Remove tires. Refer to WT-61, "Exploded View"
2. Remove wheel sensor and sensor harness. Refer to BRC-214, "REAR WHEEL SENSOR : Removal and Installation".
3. Remove caliper assembly. Hang caliper assembly not to interfere with work.
   - LHD: Refer to BR-63, "BRAKE CALIPER ASSEMBLY : Removal and Installation".
   - RHD: Refer to BR-123, "BRAKE CALIPER ASSEMBLY : Removal and Installation".

   CAUTION:
   Never depress brake pedal while brake caliper is removed.
4. Remove disc rotor.
   - 2WD: Refer to RAX-7, "Removal and Installation".
   - 4WD: Refer to RAX-18, "Removal and Installation".

   CAUTION:
   - **Put matching marks on the wheel hub assembly and the disc rotor before removing the disc rotor.**
   - **Never drop disc rotor.**
5. Remove parking brake cable mounting bolt. Refer to PB-154, "Removal and Installation".
6. Removal rear hight sensor (with LED head lamp). Refer to EXL-200, "REAR HEIGHT SENSOR : Removal and Installation".
7. Remove center muffler and main muffler.
   - MR20DD: Refer to EX-6, "Removal and Installation".
   - QR25DE: Refer to EX-12, "Removal and Installation".
   - R9M: Refer to EX-18, "Removal and Installation".
8. Remove stabilizer bar and stabilizer link. Refer to RSU-19, "Removal and Installation".
9. Remove drive shaft (4WD). Refer to RAX-22, "Removal and Installation".
10. Remove propeller shaft (4WD). Refer to DLN-214, "Removal and Installation".

11. Remove rear final drive (4WD). Refer to DLN-239, "Removal and Installation".
12. Remove rear shock absorber. Refer to RSU-13, "Removal and Installation".
13. Remove coil spring. Refer to RSU-9, "Removal and Installation".
14. Set jack rear suspension member.
    CAUTION:
    - **Check the stable condition when using a jack.**
    - **Never damage rear lower link with a jack.**
15. Remove rear suspension member mounting bolt.
16. Slowly lower jack, remove rear suspension member with lower link and upper link.
    CAUTION:
    Operate while checking that jack supporting status is stable.
17. Remove suspension member stay, lower link and upper link from suspension member.
18. Perform inspection after removal. Refer to RSU-14, "Inspection".

INSTALLATION

Note the following, and install in the reverse order of the removal.

- Align the matching marks that have been made during removal when reusing the disc rotor.
- Perform the final tightening of each of parts under unladen conditions, which were removed when removing rear suspension assembly.
- Perform inspection after installation. Refer to RSU-21, "Inspection".

Inspection

INFOID:0000000010822799

INSPECTION AFTER REMOVAL

Check rear suspension member for deformation, cracks, or any other damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Check wheel sensor harness for proper connection. Refer to BRC-213, "REAR WHEEL SENSOR : Exploded View".
2. Check wheel alignment. Refer to RSU-7, "Inspection".
3. Adjust neutral position of steering angle sensor. Refer to BRC-99, "Work Procedure".
4. After final tightening, install rear hight sensor (with LED head lamp). Refer to EXL-200, "REAR HEIGHT SENSOR : Removal and Installation".

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Wheel Alignment

INFOID:0000000010822800

Item			Standard	
Tire size			17 inch/18 inch	19 inch
Camber Degree minute (Decimal degree)		Minimum	–1° 15′ (–1.25°)	
		Nominal	–0° 30′ (–0.50°)	
		Maximum	0° 15′ (0.25°)	
Toe-in	Total toe-in Distance	Minimum	—	
		Nominal	In 1.7 mm (In 0.067 in)	In 1.8 mm (In 0.071 in)
		Maximum	—	
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 15′ (Out 0.25°)	
		Nominal	In 0° 10′ (In 0.17°)	
		Maximum	In 0° 35′ (In 0.58°)	

Measure value under unladen* conditions.

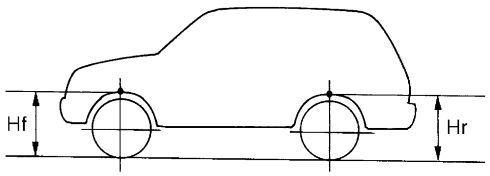
*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

Wheelarch Height

INFOID:0000000010822801

2ROW

Item	Standard								
Engine	MR20DD/QR25DE				R9M				
Drive	2WD		4WD		2WD		4WD		
Tire Size	17 inch	18 inch	17 inch	18 inch	17 inch	19 inch	17 inch	18 inch	19 inch
Front (Hf)	800 mm (31.50 in)	803 mm (31.61 in)	799 mm (31.46 in)	801 mm (31.54 in)	797 mm (31.38 in)	802 mm (31.57 in)	796 mm (31.34 in)	799 mm (31.46 in)	802 mm (31.57 in)
Rear (Hr)	798 mm (31.42 in)	800 mm (31.50 in)	796 mm (31.34 in)	799 mm (31.46 in)	798 mm (31.42 in)	802 mm (31.57 in)	797 mm (31.38 in)	799 mm (31.46 in)	801 mm (31.54 in)



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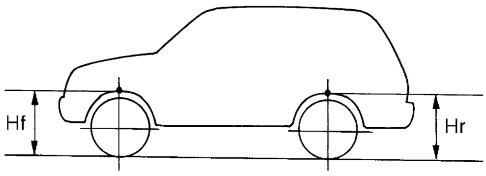
Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

3ROW

Item	Standard			
Engine	R9M			
Drive	2WD		4WD	
Tire Size	17 inch	19 inch	17 inch	19 inch
Front (Hf)	797 mm (31.38 in)	802 mm (31.57 in)	797 mm (31.38 in)	802 mm (31.57 in)
Rear (Hr)	796 mm (31.34 in)	801 mm (31.54 in)	795 mm (31.30 in)	800 mm (31.50 in)



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Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.